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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/046,784

01/16/2002

Bahadir Erimli

95-507

2631

20736 7590 02/21/2007
MANELLI DENISON & SELTER
2000 M STREET NW SUITE 700
WASHINGTON, DC 20036-3307

EXAMINER

DIVECHA, KAMAL B

ART UNIT

PAPER NUMBER

2151

MAIL DATE

DELIVERY MODE

02/21/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary	Application No.	Applicant(s)	
	10/046,784	ERIMLI, BAHADIR	
	Examiner	Art Unit	
	KAMAL B. DIVECHA	2151	

All participants (applicant, applicant's representative, PTO personnel):

(1) KAMAL B. DIVECHA. (3) _____.

(2) Leon R. Turkevich. (4) _____.

Date of Interview: 12 February 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____.

Claim(s) discussed: 1 and 5.

Identification of prior art discussed: Kagan and Avery.

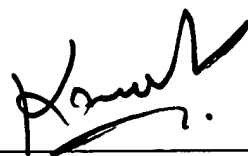
Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Please see the continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.



 Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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In view of Interview Request and proposed amendment submitted on February 9, 2007, a brief discussion in view of agenda submitted with the Interview Request was held (See the Interview Request form, page 1).

With respect to argument (1) and (2) (Please see the attached Interview agenda), Examiner respectfully disagreed with the applicant's interpretation because the term "transmitted" and "transmission" could mean:

- (a) Is transmitted within the system, or channel adapter, OR,
- (b) Is transmitted across the network to its intended destination.

Examiner further suggested that the inclusion of the manner in which the transmission is performed, i.e. if its based on the network, into the claims may overcome the rejection, however, applicant clearly disagreed because the specification or the disclosure may not describe such a process and/or the invention may not be in that field.

With respect to 35 U.S.C. 101 rejections, the examiner said that the inclusion of "circuit" in the claim could overcome the 101 rejections, as long as the term is defined in the disclosure or specification (because this may invoke 35 U.S.C. 112, first paragraph).

Upon reviewing the specification, for example: page 5, wherein the channel adapter is disclosed as an application-specific integrated circuit, Examiner suggested to include the term "application-specific integrated circuit" in order to overcome the 101 rejection, but applicant disagreed.

As mentioned by the applicant in the telephonic interview, the circuit can also represent FPGA circuits.

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Applicant further suggested the inclusion of the term "integrated" in claim 5 in order to overcome the 101 rejections, but the Examiner felt that further consultation with supervisor was necessary.

Therefore, in view of the discussion above, the proposed amendment does not overcome the rejection, and to conclude, no agreement was reached.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAMAL B. DIVECHA whose telephone number is 571-272-5863. The examiner can normally be reached on Increased Flex Work Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Kamal Divecha.
Art Unit 2151 (Computer Engineer).
January 12, 2007.

Via Fax 571-273-5863
(5 pages)
PATENT

Docket No.: 95-507

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : **FOR INTERVIEW PURPOSES ONLY:**
ERIMLI : **DO NOT ENTER!!!**
Serial No.: 10/046,784 : Group Art Unit: 2151
Filed: January 16, 2002 : Examiner: DIVECHA, Kamal B
For: ARRANGEMENT IN AN INFINIBAND CHANNEL ADAPTER FOR SHARING
MEMORY SPACE FOR WORK QUEUE ENTRIES USING MULTIPLY-LINKED
LISTS

TELEPHONIC INTERVIEW AGENDA AND PROPOSED AMENDMENT

Mr. Divecha, attached is a proposed telephonic interview agenda for the afternoon of Monday, February 12, 2007, and a proposed amendment to the claims.

PROPOSED AGENDA

§101 Rejection of Claims 5-7: The proposed amendments to claims 5-7 overcome the rejection

§103 Rejection:

(1) Regarding Examiner's Argument that Applicant is arguing features not claimed, claim 5 specifies "a table manager (circuit) configured for *adding* the table entries *based on transmission of the respective work queue entries*". (Kagan teaches a list of DMA descriptors that are "ready for execution")

(2) Claim 1 explicitly specifies, e.g., "a work queue entry field that specifies a *transmitted work queue entry*" and a "storing in the first link field a first entry identifier for one of the *transmitted work queue entry* or a *subsequently transmitted work queue entry*". Use of the past tense of "transmitted" requires the transmission to have already occurred. Nevertheless,

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the proposed amendment to claim 1 adds the language of claim 5, which has already been presented and therefore presents no new issues.

(3) Arguments regarding Avery are moot if agreement is reached with respect to points (1) and (2) *supra*

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PROPOSED AMENDMENT TO CLAIMS 1 AND 5

1. (PROPOSED AMENDMENT) A method in a channel adapter configured for communications with a server network system, the method comprising:

first storing, in a table configured for storing multiple entries, an entry having a work queue entry field that specifies a transmitted work queue entry based on transmission of the transmitted work queue entry, the entry including at least first and second link fields each configured for referencing another entry in the table, the first storing step including storing in the first link field a first entry identifier for one of the transmitted work queue entry or a subsequently transmitted work queue entry relative to the transmitted work queue entry, wherein the first entry identifiers in the respective first link fields form a first linked list specifying a transmit sequence of the transmitted work queue entries;

detecting an acknowledgement for at least a first of the transmitted work queue entries stored in the table; and

generating in the table a second linked list specifying an acknowledgement sequence of the transmitted work queue entries by second storing, in the second link field of the entry corresponding to the first transmitted work queue entry, a second entry identifier based on the detecting step, the second entry identifier specifying one of the first transmitted work queue entry or an entry having received a subsequent acknowledgement relative to the detected acknowledgement.

2. (ORIGINAL) The method of claim 1, wherein the first storing step includes storing the entry in a send queue table by a free buffer manager.

3. (ORIGINAL) The method of claim 1, further comprising parsing the second linked list to determine transmitted work queue entries awaiting acknowledgement.

4. (ORIGINAL) The method of claim 1, wherein the detecting step includes detecting the acknowledgement according to InfiniBand™ protocol.

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5. (PROPOSED AMENDMENT) A channel adapter circuit comprising:
a table memory configured for storing entries identifying respective work queue entries having been transmitted according to a service protocol requiring receipt of an acknowledgment message, each entry including:
(1) a work queue entry field configured for specifying the corresponding work queue entry,
(2) a first link field configured for specifying a first entry identifier referencing one of the corresponding entry or another entry for a subsequently transmitted work queue entry relative to the corresponding entry, and
(3) a second link field configured for storing a second entry identifier referencing one of the corresponding entry or another entry having received a subsequent acknowledgement;
an acknowledgement detector configured for detecting the acknowledgements for the work queue entries; and
a table manager circuit configured for adding the table entries based on transmission of the respective work queue entries, the table manager configured for inserting the corresponding first entry identifier based on the subsequently transmitted work queue entry, the table manager configured for inserting the corresponding second entry identifier based on the entry having received the subsequent acknowledgement, the first and second link fields forming first and second linked lists identifying a transmit sequence of the transmitted work queue entries and an acknowledgement sequence of the transmitted work queue entries, respectively.

6. (PROPOSED AMENDMENT) The channel adapter circuit of claim 5, wherein the acknowledgement detector is configured for detecting the acknowledgement according to InfiniBand™ protocol.

7. (PROPOSED AMENDMENT) The apparatus channel adapter circuit of claim 5, wherein the table manager is configured for parsing the second linked list to determine transmitted work queue entries awaiting acknowledgement.

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We look forward to the telephonic interview on the afternoon of Monday, February 12, 2007.

Respectfully submitted,

Manelli Denison & Selter PLLC



Leon R. Turkevich

Registration No. 34,035

Customer No. 20736
Tel. (202) 261-1059
Date: February 9, 2007

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